UNITED STATES HAMILTON DRAW QUADRANGLE DEPARTMENT OF THE INTERIOR MONTANA GEOLOGICAL SURVEY 7.5 MINUTE SERIES (TOPOGRAPHIC) (POKER JIM BUTTE) 106°22′30″ 45°15′ R.44 E. R.45 E 17'30' This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomencla-12 11 10 OPEN FILE REPORT 78-040 RB R(.85) .020 .017 FLOWERS-GOODALE NON-FEDERAL COAL LAND--Land for COAL BED which the Federal Government 15 does not own the coal rights. 17 14 BOUNDARY OF RESERVE BASE COAL--Drawn along the out-SMITH COAL BED crop of coal bed or the contact between the burned and unburned coal, the 5-foot (1.5 m) coal isopach, the 1,000-foot (305 m) overburden isopach, and an arc 3 miles (4.8 km) from nearest complete measurement of coal bed. Arrows point toward area of Reserve Base coal. 23 21 22 19 20 20 24 — (Measured resources) — — (Indicated resources) .95 .81 (Inferred resources) IDENTIFIED STRIPPABLE COAL RESOURCES--Showing totals for Reserve Base (RB) and Reserves 12'30" 12'30" (R), in millions of short tons, for each section or part(s) of section of Federal coal land within the stripping-limit line. Dash indicates no resources in that category. Reserve Base (RB) x the 29 27 26 28 25 Recovery Factor (85 percent) 29 = Reserves (R). Rounded to two significant figures. IDENTIFIED NON-STRIPPABLE COAL RESOURCES--Showing totals for Reserve Base (RB), in millions of short tons, for each section or part(s) of section of Federal coal land outside the 32 stripping-limit line. Dash 34 33 35 36 31 32 02 indicates no resources in that category. Rounded to two significant figures. Recovery factors have not been established for underground development of coal in this T 7 S quadrangle. Therefore, T 8 5 Reserves (R) were not calcu-T 85 lated for the coal bed in areas outside the strippinglimit line where the overburden thickness exceeds 200 feet (61 m). To convert short tons to metric tons, multiply by 0.907. 10 11 12 17 18 16 ROLAND COAL BED OF BAKER (1929) 13 14 18 .24 .20 .001 — 22 20 23 19 45°07′30″ 106°15′ 45°07′30″ 17'30" 106°22′30″ R.44 E. R.45 E Base from U.S. Geological Survey, 1972 Compiled in 1977 SCALE 1:24 000 1 MILE 6000 7000 FEET 1 KILOMETRE 0°56' MONTANA

COAL RESOURCE OCCURRENCE AND COAL DEVELOPMENT POTENTIAL MAPS OF THE HAMILTON DRAW QUADRANGLE, ROSEBUD, BIG HORN, AND POWDER RIVER COUNTIES, MONTANA

QUADRANGLE LOCATION

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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EXPLANATION

(Measured resources) (Indicated resources) (Inferred resources)